

Resource Summary Report

Generated by [nidm-terms](#) on Aug 9, 2026

pENN.AAV.CamKII.GCaMP6f.WPRE.SV40

RRID:Addgene_100834

Type: Plasmid

Proper Citation

RRID:Addgene_100834

Plasmid Information

URL: <http://www.addgene.org/100834>

Proper Citation: RRID:Addgene_100834

Insert Name: GCaMP6f

Organism: Synthetic

Bacterial Resistance: Ampicillin

Vector Backbone Description: Vector Backbone:pAAV; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: This plasmid was previously available as pENN.AAV.CamKII.GCaMP6f.WPRE.SV40 (P3435) from the Penn Vector Core. GCaMP6f was created as part of the GENIE project at Janelia Research Campus.

Plasmid Name: pENN.AAV.CamKII.GCaMP6f.WPRE.SV40

Relevant Mutation: GCaMP3-T302L R303P A317E D380Y T381R S383T R392G

Record Creation Time: 20220422T221450+0000

Record Last Update: 20260808T080307+0000

Ratings and Alerts

No rating or validation information has been found for pENN.AAV.CamKII.GCaMP6f.WPRE.SV40.

No alerts have been found for pENN.AAV.CamKII.GCaMP6f.WPRE.SV40.

Data and Source Information

Usage and Citation Metrics

We found 81 mentions in open access literature.

Listed below are recent publications. The full list is available at [nidm-terms](#) .

Chu E, et al. (2026) Frontal Brain Injury Reduces Sensitivity to Reward-Predictive Cues and Remodels the Nucleus Accumbens. bioRxiv : the preprint server for biology.

Chen SY, et al. (2026) Activity-dependent development of vocal circuits in the neonatal rodent forebrain. EMBO reports, 27(13), 3632.

Sohn K, et al. (2026) Computational mechanisms for temporal integration in the anterior claustrum. eLife, 15.

Onimus O, et al. (2026) The gut-brain vagal axis governs mesolimbic dopamine dynamics and reward events. Science advances, 12(5), eadz0828.

La Greca F, et al. (2026) Individual differences in prosocial learning are represented in the hippocampal dorsal CA1. Nature neuroscience, 29(7), 1667.

Nitahara K, et al. (2026) Defective ventral neurogenesis due to midfetal Chd8 mutation drives autistic-like behavior in mice. Nature communications, 17(1).

Jiang A, et al. (2026) Distinct CA3 inputs differentially shape the learning-dependent evolution of right CA1 spatial maps. Nature communications, 17(1).

Baumgartner NE, et al. (2026) The lateral septum orchestrates state-dependent modulation of associative threat memory dynamics across the ovarian hormone cycle. bioRxiv : the preprint server for biology.

Lee YB, et al. (2026) Hierarchical Summary Statistics Encoding Across Primary Visual and Posterior Parietal Cortices. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(27), e12369.

Sugino T, et al. (2026) Subtype-specific modulation of inhibitory interneurons by general anesthetics. iScience, 29(3), 115140.

McMurray KMJ, et al. (2026) Projections from subfornical organ to infralimbic cortex modulate carbon dioxide associated fear. bioRxiv : the preprint server for biology.

Vittani M, et al. (2025) Functional and structural profiling of circulation via genetically encoded modular fluorescent probes. bioRxiv : the preprint server for biology.

Vargish GA, et al. (2025) A novel, evolutionarily conserved inhibitory circuit selectively regulates dentate gyrus mossy cell function. bioRxiv : the preprint server for biology.

Yi JH, et al. (2025) Selective engagement of prefrontal VIP neurons in reversal learning. Science advances, 11(30), eadt4945.

Udakis M, et al. (2025) Hippocampal OLM interneurons regulate CA1 place cell plasticity and remapping. *Nature communications*, 16(1), 9912.

Cao T, et al. (2025) Broad brain biodistribution conferred by an AAV to restore TDP-43 function mitigates Frontotemporal Dementia-like deficits. *bioRxiv : the preprint server for biology*.

Fujima S, et al. (2025) Parvalbumin interneurons in the insular cortex control social familiarity and emotion recognition. *Cell reports*, 116085.

Hong CY, et al. (2025) Anterior hypothalamic nucleus drives distinct defensive responses through cell-type-specific activity. *iScience*, 28(4), 112097.

Zafiri D, et al. (2025) Dopamine prediction error signaling in a unique nigrostriatal circuit is critical for associative fear learning. *Nature communications*, 16(1), 3066.

Krishnan S, et al. (2025) A contextual fear conditioning paradigm in head-fixed mice exploring virtual reality. *eLife*, 14.